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SECRET

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S E C R E T CITE NPIC 2139
MISSION GL G-989 31 OCT 67

PREFACE

THE FOLLOWING INFORMATION REPRESENTS A PRELIMINARY ANALYSIS OF AERIAL PHOTOGRAPHY FROM GLASS LAMP MISSION G-989, 28 OCT 67.

(TEXT WHICH FOLLOWED WAS IDENTICAL TO ABOVE CITED MISSION)

S E C R E T

-END OF MESSAGE-

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1	File X	
2	OS	
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Declass Review by NGA

X with Ltr

SECRET

(ALSO PASSED TO)

GROUP 1
Excluded from automatic downgrading and declassification

25X1

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188SECTION # 01>>>>>>>>>>>>>>1111>>>>>>>>>>>>>>>>>>>>>>>>
MISSION GL G-989 31 OCT 67

PREFACE

THE FOLLOWING INFORMATION REPRESENTS A PRELIMINARY ANALYSIS OF AERIAL PHOTOGRAPHY FROM GLASS LAMP MISSION G-989, 28 OCT 67. THE NUMBER AT THE RIGHT MARGIN OF THE HEADER LINE IS THE CONIREX TARGET NUMBER. OUT63482

SYMBOLS USED TO INDICATE CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON PHOTOGRAPHY ARE AS FOLLOWS-- C @CLEAR¤, SC @SCATTERED CLOUD COVER¤, HC @HEAVY CLOUD COVER¤, H @HAZE¤, CS @CLOUD SHADOW¤, SD @SEMIDARKNESS¤, GC @GROUND COVER¤, CF @CAMOUFLAGE¤, O @OBLIQUITY¤, AND GR @GROUND RESOLUTION¤.

INTERPRETABILITY OF THE PHOTOGRAPHY IS CATEGORIZED AS G @GOOD¤, F @FAIR¤, OR P @POOR¤. THE EXTENT OF TARGET COVERAGE IS DENOTED BY THE SYMBOLS T @TOTAL¤ OR PT @PARTIAL¤. THE MODE OF COVERAGE IS SIGNIFIED BY ST @STEREO¤, NS @NONSTEREO¤, OR PS @PARTIAL STEREO¤.

AAA DEFENSES ARE DIVIDED INTO FOUR BASIC CATEGORIES -- LIGHT @21-75 MM¤, MEDIUM @76-100 MM¤, HEAVY @OVER 100 MM¤, AND AUTOMATIC WEAPONS @ZPU-1, ZPU-2, AND ZPU-4¤. IF THE CATEGORY CANNOT BE DETERMINED, THE SITE WILL BE LISTED AS AN AAA SITE AND THE NUMBER OF GUNS INDICATED @EXAMPLE -- 6-GUN AAA SITE, OCCUPIED/UNOCCUPIED¤.

MISSILES

HOLGUIN SAM SITE B27-2 CU 2052N 07627W
OB -- 5 EMPLACED LAUNCHERS, 6 MISSILE TRANSPORTERS, AND A PROBABLE FAN SONG RADAR WITH ASSOCIATED EQUIPMENT.
ACTIVITY -- 1 PROBABLY OCCUPIED 6-GUN AAA SITE.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

[redacted] 25X1

HOLGUIN AIRFIELD SAM SITE CU 2046N 07619W
SITE APPEARS OCCUPIED.

[redacted] 25X1

HOLGUIN SAM SITE WEST CU 2051N 07627W
OB -- NONE OBSERVED.
CONSTRUCTION CONTINUES.

[redacted] 25X1

SANTIAGO DE CUBA SAM SITE A23-2 CU 1959N 07558W
OB -- 6 EMPLACED LAUNCHERS @3 WITH MISSILES¤, 16 MISSILE TRANSPORTERS @5 WITH MISSILES¤, 1 ADDITIONAL LAUNCHER, A FAN SONG RADAR WITH ASSOCIATED SHED-COVERED EQUIPMENT, 5 TRACKED PRIME MOVERS, 14 CARGO TRUCKS, 4 OTHER VEHICLES, AND 2 TRUCK-MOUNTED CRANES.
ACTIVITY -- 2 OCCUPIED 6-GUN AAA SITES.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

[redacted] 25X1

SANTIAGO DE CUBA SAM ASSEMBLY AREA CU 2004N 07553W
OB -- 2 PROBABLE MISSILE TRANSPORTERS, 3 MISSILE CANISTER TRANSPORTERS, 4 FLATBED TRACTOR-TRAILER TRUCKS, AND 6 CARGO TRUCKS.

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NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

SANTIAGO DE CUBA SAM SITE 2 CU 1958N 07549W
OB -- NONE OBSERVED.
CONSTRUCTION CONTINUES.

[redacted] 25X1

SAN PEDRO DE CACOCUM SAM SITE A06-2 CU 2045N 07615W
OB -- 6 EMPLACED LAUNCHERS AND A PROBABLE FAN SONG RADAR WITH 6 ASSOCIATED VAN TRAILERS.
ACTIVITY -- 1 OCCUPIED 6-GUN AAA SITE.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

[redacted] 25X1

LA MAYA SAM SITE A35-2 CU 2014N 07540W
OB -- 6 EMPLACED LAUNCHERS @2 WITH MISSILES¤, 9 MISSILE TRANSPORTERS @5 WITH EXPOSED MISSILES¤, A FAN SONG RADAR WITH 6 ASSOCIATED VAN TRAILERS, A SPOON REST RADAR WITH GENERATOR VAN, 1 ADDITIONAL LAUNCHER, AND 3 OTHER VAN TRAILERS.
ACTIVITY -- 1 OCCUPIED 6-GUN AAA SITE.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

[redacted] 25X1

SANTIAGO SAM TRAINING AREA CU 1958N 07551W
OB -- 1 MISSILE TRANSPORTER, 9 CARGO TRUCKS, AND 1 TRUCK-MOUNTED CRANE. ADDITIONAL OB IS LOCATED 0.7 NM NE OF THE FACILITY. IT INCLUDES 4 PROBABLE MISSILE TRANSPORTERS, 4 CARGO TRUCKS, 1 TRUCK-MOUNTED CRANE, AND 2 OTHER VEHICLES.
ACTIVITY -- COMMUNICATIONS SITE LOCATED ON SW EDGE OF FACILITY.

[redacted] 25X1

AIR FACILITIES

CAMAGUEY INTERNATIONAL AIRFIELD CU 2125N 07758W
OB -- 2 CRATE, 1 C-47, 5 COLT, AND 8 HOUND.

[redacted] 25X1

HOLGUIN AIRFIELD CU 2047N 07618W
OB -- 1 FISHBED AND 2 FAGOT/FRESCO.

[redacted] 25X1

LOS CANOS AIRFIELD CU 2005N 07509W
OB -- 1 PROBABLE SMALL STRAIGHT-WING AIRCRAFT.

[redacted] 25X1

ANTONIO MACEO AIRFIELD CU 1958N 07550W
OB -- 2 C-47, 2 MORAVA L-200, AND 1 HOUND.

[redacted] 25X1

NAVAL ACTIVITY/PORTS

SANTIAGO DE CUBA NAVAL BASE AND PORT CU 2001N 07550W
VESSELS -- 9 LARGE FREIGHTERS, 3 SMALL FREIGHTERS, AND 4 COASTAL FREIGHTERS.

[redacted] 25X1

NUEVITAS PORT CU 2132N 07715W

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VESSELS -- 3 LARGE FREIGHTERS.

[redacted] 25X1

LA ISABELA PORT FACILITIES CU 2256N 08000W
VESSELS -- 4 LARGE FREIGHTERS.

[redacted] 25X1

CAIBARIEN PORT CU 2231N 07928W
NO LARGE VESSELS OBSERVED.

[redacted] 25X1

ELECTRONICS/COMMUNICATIONS

HOLGUIN RADAR SITE CU 2048N 07618W
OB -- NONE OBSERVED.

[redacted] 25X1

SANTIAGO DE CUBA EW/GCI RADAR SITE CU 1959N 07551W
OB -- NONE OBSERVED.
ACTIVITY -- 5 CARGO TRUCKS AND AN OCCUPIED 6-GUN AAA SITE. CONSTRUCTION CONTINUES ON THE BUNKER ADJACENT TO THE SITE.

[redacted] 25X1

MILITARY ACTIVITY

ALTO CEDRO MILITARY CAMP CU 2029N 07600W
OB -- AREA 1 -- 8 CARGO TRUCKS AND 11 TANK TRUCKS.
AREA 2 -- 18 CARGO TRUCKS AND 16 CARGO TRAILERS.
AREA 3 -- 12 AAA PIECES, 5 MORTARS, AND 18 CARGO TRUCKS.
AREA 4 -- 12 TANKS/SP GUNS, 29 CARGO TRUCKS, 2 CARGO TRAILERS, AND 3 OTHER VEHICLES/PIECES OF EQUIPMENT.
AREA 5 -- 46 CARGO TRUCKS AND 8 OTHER VEHICLES/PIECES OF EQUIPMENT.
AREA 6 -- 27 CARGO TRUCKS.
AREA 7 -- 7 BTR-60P, 6 PROBABLE BTR-152, AND 6 CARGO TRUCKS.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

DOS CAMINOS MILITARY CAMP CU 2014N 07547W
OB -- AT LEAST 45 FA/AAA PIECES AND 90 VEHICLES.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

GUANTANAMO AREA CU 2018N 07525W
NO NEW MILITARY ACTIVITY OBSERVED.
AREAS 1,2,3 -- 90 PERCENT USABLE COVERAGE.
AREA 4 -- 80 PERCENT USABLE COVERAGE.
AREA 5 -- 40 PERCENT USABLE COVERAGE.
AREA 6 -- 30 PERCENT USABLE COVERAGE.
AREA 7 -- 60 PERCENT USABLE COVERAGE.
AREA 8 -- 40 PERCENT USABLE COVERAGE.

[redacted] 25X1

HOLGUIN MILITARY CAMP EAST CU 2053N 07613W
OB (MAIN CAMP) -- 7 TANKS/SP GUNS, 61 FA PIECES, 38 AAA PIECES, 5 MORTARS, 8 BTR-60P, 6 CARGO TRUCKS

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UTILITY VEHICLES, AND 6 VEHICLES/PIECES OF EQUIPMENT.
QCAMP 2.2 NM SEW -- 4 FA PIECES, 2 MORTARS, 3 PROBABLE MORTARS, AND 11 CARGO TRUCKS.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

HOLGUIN MILITARY CAMP NORTH CU 2857N 07616W
OB -- 3 TANKS/SP GUNS, 5 POSSIBLE CANVAS-COVERED AAA PIECES, AND 24 CARGO TRUCKS.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

SANTIAGO MILITARY CAMP CUABITAS CU 2883N 07548W
OB -- 13 TANKS/SP GUNS, 2 PROBABLE TANKS/SP GUNS, 14 CARGO TRUCKS, 2 UTILITY TRUCKS, AND 2 OTHER VEHICLES/PIECES OF EQUIPMENT.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

EL CRISTO MILITARY INSTALLATION CU 2818N 07547W
OB -- 3 PROBABLE SALISH RESUPPLY VEHICLES AND 3 CARGO TRUCKS.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

SANTIAGO MILITARY CAMP LA QUINTA CU 2882N 07551W
OB -- NONE OBSERVED.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

MINAS MILITARY CAMP FUNDICION CU 2127N 07734W
OB -- 18 TANKS/SP GUNS, 14 CARGO TRUCKS, AND 2 VAN TRUCKS.
ACTIVITY -- 1 PROBABLY OCCUPIED 6-GUN AAA SITE.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

OFELIA MILITARY CAMP CU 2886N 07539W
OB -- 7 TANKS/SP GUNS, 2 FA PIECES, 28 CARGO TRUCKS, 7 UTILITY TRUCKS, 5 CARGO TRAILERS, AND 7 UNIDENTIFIED VEHICLES.
ACTIVITY -- 1 OCCUPIED 6-GUN AAA SITE.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

PUERTO PADRE MILITARY AREA CU 2111N 07639W
OB -- 24 TANKS/SP GUNS, 6 FA PIECES, 6 BTR-60P, 5 PROBABLE BTR-152P, 8 CARGO TRUCKS, 1 FLATBED TRAILER, 2 TRACKED VEHICLE TRANSPORTER TRAILERS, AND 22 OTHER VEHICLES.
ACTIVITY -- 1 OCCUPIED 3-GUN AAA SITE. FACILITIES INCLUDE 9 TENTS.
NO APPARENT CHANGE IN PERMANENT FACILITIES.

[redacted] 25X1

SANTIAGO DE CUBA MILIT[redacted]Y BKS NW CU 2883N 07554[redacted]
OB -- 6 AAA PIECES, 14 CARGO TRUCKS, AND 8 UTILITY TRUCKS.

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NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

SANTIAGO DE CUBA MILITARY CAMP NW CU 2003N 07551
OB -- 35 FA PIECES, 16 AAA PIECES, 66 CARGO TRUCKS, AND
5 UTILITY TRUCKS.
ACTIVITY -- 2 OCCUPIED 3-GUN AAA SITES AND 2 OCCUPIED
6-GUN AAA SITES.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

SANTIAGO DE CUBA MIL CAMP SAN JUAN HILL CU 2001N 07547W
OB -- 22 FA PIECES, 30 AAA PIECES, 14 CARGO TRUCKS, AND
4 UTILITY TRUCKS.
ACTIVITY -- 2 OCCUPIED 3-GUN AAA SITES.

[redacted] 25X1

JESUS MARIA PROBABLE MILITARY BARRACKS CU 2056N 07615W
OB -- NONE OBSERVED.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

NICARO LANDING BEACH CU 2042N 07533W
NO NEW MILITARY ACTIVITY OBSERVED.

[redacted] 25X1

OTHER ACTIVITY

SANTIAGO MIL CAMP SW EARTH-COVERED BUNKER CU 1959N 07550W
NO ACTIVITY OR CHANGE OBSERVED.

[redacted] 25X1

-STATUS OF OTHER TARGETS-

THE FOLLOWING TARGETS SHOW NO APPARENT CHANGE SINCE LAST COVERAGE--

SANTIAGO DE CUBA EW/GCI RADAR SITE 2	2005N 07551W
PUNTA MAISI LOW SIEVE RADAR SITE	2014N 07409W
LA SOCAPA LOW SIEVE RADAR SITE	1958N 07552W
SIBONEY LANDING BEACH	1957N 07542W
PLAYA YATERITAS LANDING BEACH	1958N 07457W
MAR VERDE LANDING BEACH	1957N 07556W
IMIAS LANDING BEACH	2005N 07440W
MOA @PUNTA GORDA@ LANDING BEACH	2039N 07453W
MOA @CANANOVA@ LANDING BEACH	2039N 07502W

THE FOLLOWING TARGETS COULD BE IDENTIFIED BUT NOT INTERPRETED--

PALMA SORIANO SAM SITE A@2-2	2015N 07559W
LA VEGUITA SAM ASSEMBLY AREA	2049N 07615W
PAINSERA RDR SITE PUNTA DE MULAS	2101N 07535W
HOLGUIN AIRFIELD RADAR SITE SW	2045N 07621W
REMEDIOS MILITARY CAMP NW	2227N 07935W

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